

ABSTRACT OF THE DISCLOSURE

A method and system for processing multi-agent cooperative transactions. A failure detector is provided for detecting whether a failure is an intra-enterprise failure or an inter-enterprise failure. An intra-enterprise failure handler is coupled to the failure detector for performing failure recovery for intra-enterprise failures. Failure recovery for intra-enterprise failures can include identifying the scope of failure recovery within a first enterprise. Once the scope of failure recovery has been identified, a top-down undo operation of sub-transactions in the identified scope may be performed within the first enterprise. An inter-enterprise failure handler is also coupled to the failure detector for performing failure recovery for inter-enterprise failures. Failure recovery for inter-enterprise failures can include identifying the scope of failure recovery in a second enterprise to which a failure in a first enterprise has been transferred. Once the scope of failure recovery has been identified, a top-down undo operation of sub-transactions in the identified scope may be performed in the second enterprise.

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